**LETTERS**

"Human Life" Testimony: J. C. Hickman; B. G. Boving; B. Libet; Genetic Influence on Behavior: W. Irons; Hubbert's Estimates: E. F. Osborn; Graphs, Not Punctuation: E. P. Hamp; A. Abbott

**EDITORIAL**
The Fate of the Seed Corn: D. A. Bromley

**ARTICLES**
Tropical Archeoastronomy: A. F. Aveni

Studies in Histocompatibility: G. D. Snell

The Agriculture Grants Program: D. W. Krogmann and J. Key

**NEWS AND COMMENT**
Keyworth Gives First Policy Speech

Reagan Officials Discuss Science Budget

Court Upholds Controversial Regulations

Briefing: Ariane Is a Success; Soviets Sentence Scientist to 5 Years in Exile; Perchern: Entrepreneurial Exuberance in Space; Rostow Confirmed as Hard-Liner Head of ACDA; Denis Hayes Fired from SERI

The U.S. Flight from Pilotless Planes

**RESEARCH NEWS**
CERN Sets Intermediate Vector Boson Hunt

Coronary Treatment Assessed

**ANNUAL MEETING**
Call for Contributed Papers

**AAAS NEWS**
Energy Seminars Address a Range of Concerns: J. Wrather; Media Fellows Begin Assignments; AAAS/NASW Host Chinese Science Writers Delegation: L. A. Levey; The Clearinghouse on Science and Human Rights; Division Meeting at Greeley Highlights the Unusual: R. A. Scribner; AAAS Alaska Division Announces Its 32nd Annual Meeting; AAAS Travelers; Arms Control Committee Established; Obituaries

**BOOK REVIEWS**
The Winning Weapon, reviewed by M. P. Leffier; Taking Your Medicine, A. P. Williams; Bacterial Chemotaxis as a Model Behavioral System, G. L. Hazelbauer; The Physics and Chemistry of Low Dimensional Solids, J. C. Scott; Books Received
REPORTS

The Marine Geochemistry of Germanium: Ekasilicon: P. N. Froelich, Jr., and M. O. Andreae ........................................... 205

Lateral P-Velocity Gradients near Major Strike-Slip Faults in California:
D. J. Stierman and S. O. Zappe ........................................... 207

Generation of Stabilized Microbubbles in Seawater: B. D. Johnson and
R. C. Cooke .............................................................. 209

Solar Photovoltaic Power Systems: Will They Reduce Utility Peaking
Requirements?: R. O. Mueller, B. K. Cha, R. F. Giese .................. 211

Constraints on the Formation of Sedimentary Dolomite: P. A. Baker and
M. Kastner ............................................................... 214

Thyrotropin-Releasing Hormone Improves Cardiovascular Function in
Experimental Endotoxic and Hemorrhagic Shock: J. W. Holiday,
J. J. D’Amato, A. I. Faden ............................................. 216

Epidermal Growth Factor Enhances Viral Transformation of Granulosa Cells:
J. Harrison and N. Auersperg .......................................... 218

Power Spectrum Analysis of Heart Rate Fluctuation: A Quantitative Probe
of Beat-to-Beat Cardiovascular Control: S. Akelrod et al. .............. 220

Reaction of Monosaccharides with Proteins: Possible Evolutionary
Significance: H. F. Bunn and P. J. Higgins .......................... 222

Calcium Dependence of the Inactivation of Calcium Currents in Skeletal
Muscle Fibers of an Insect: F. M. Ashcroft and P. R. Stanfield ...... 224

Three Distinct Genes in Human DNA Related to the Transforming Genes of
Mammalian Sarcoma Retroviruses: F. Wong-Staal et al. ............... 226

Perivascular Meningeal Projections from Cat Trigeminal Ganglia: Possible
Pathway for Vascular Headaches in Man: M. Mayberg et al. ........ 228

Freeze-Fracture Cytochemistry: Replicas of Critical Point–Dried Cells and
Tissues After Fracture-Label: P. Pinto da Silva et al. .................. 230

Serum Albumin Beads: An Injectable, Biodegradable System for the Sustained

Brain Tumors in Children and Occupational Exposure of Parents:
J. M. Peters, S. Preston-Martin, M. C. Yu ............................ 235

The Diaphragm: Two Muscles: A. De Troyer et al. ..................... 237

Chloramphenicol Administration During Brain Development: Impairment of
Avoidance Learning in Adulthood: A. Bertolino and R. Poggioli ...... 238

Fetal Female Rats Are Masculinized by Male Littermates Located Caudally in
the Uterus: R. L. Meisel and I. L. Ward ................................ 239

Reformation of Organized Connections in the Auditory System After
Regeneration of the Eighth Nerve: H. Zakon and R. R. Capranica ... 242

Brain 5β-Reductase: A Correlate of Behavioral Sensitivity to Androgen:
J. B. Hutchison and T. Steimer ....................................... 244

Technical Comments: Aseismic Uplift in California: R. O. Castle et al.;
D. D. Jackson, W. B. Lee, C.-C. Liu ................................... 246

COVER

The role of environment in the development of astronomical systems is illustrated by the hypothetical navigator in tropical latitudes who finds his island destination by mnemonic association with a particular linear constellation composed of member stars that rise or set vertically with respect to the direction of that island in the horizon plane. The two members of the chain, connected by a dashed line in the illustration, can be recognized by astronomers in north temperate latitudes as part of a different star pattern—the well-known constellation of Orion. See page 161. [Sketch by Julia Meyer, Colgate University, Hamilton, New York 13346]
Editor's Summary